

MTJ (MAGNETIC TUNNEL JUNCTION) ELEMENT

FIG. 1 PRIOR ART

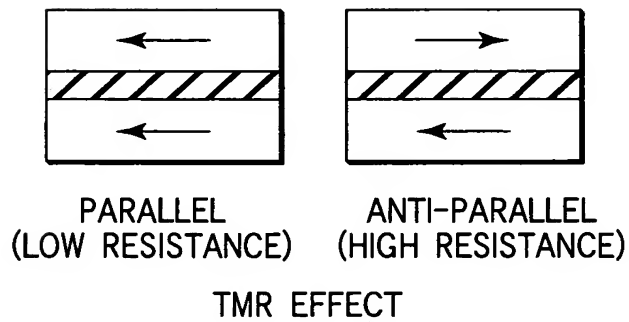
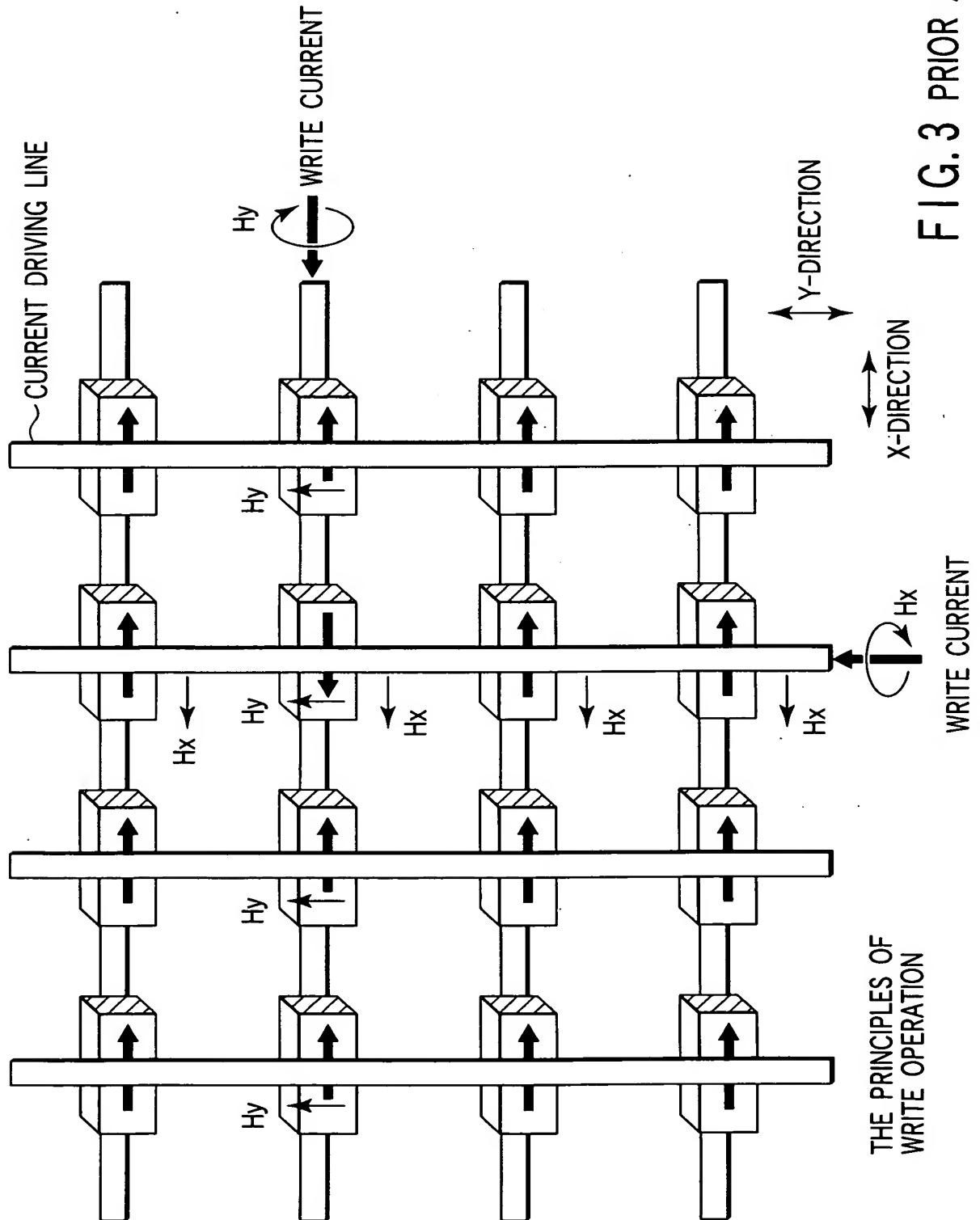


FIG. 2 PRIOR ART



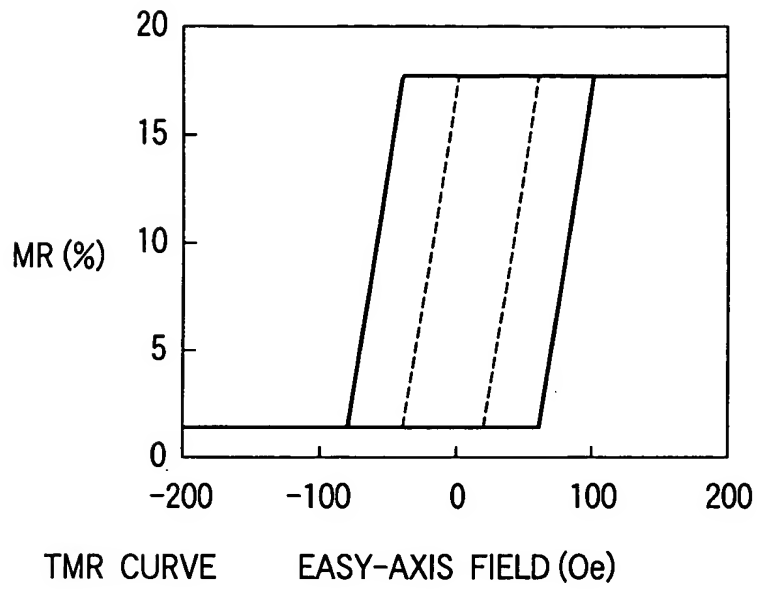


FIG. 4 PRIOR ART

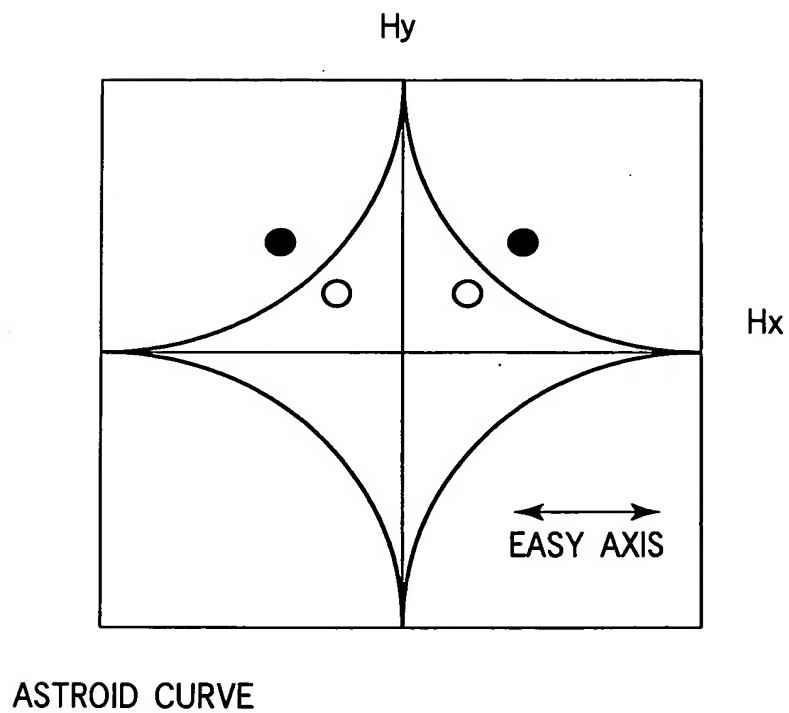


FIG. 5 PRIOR ART

FIG. 6

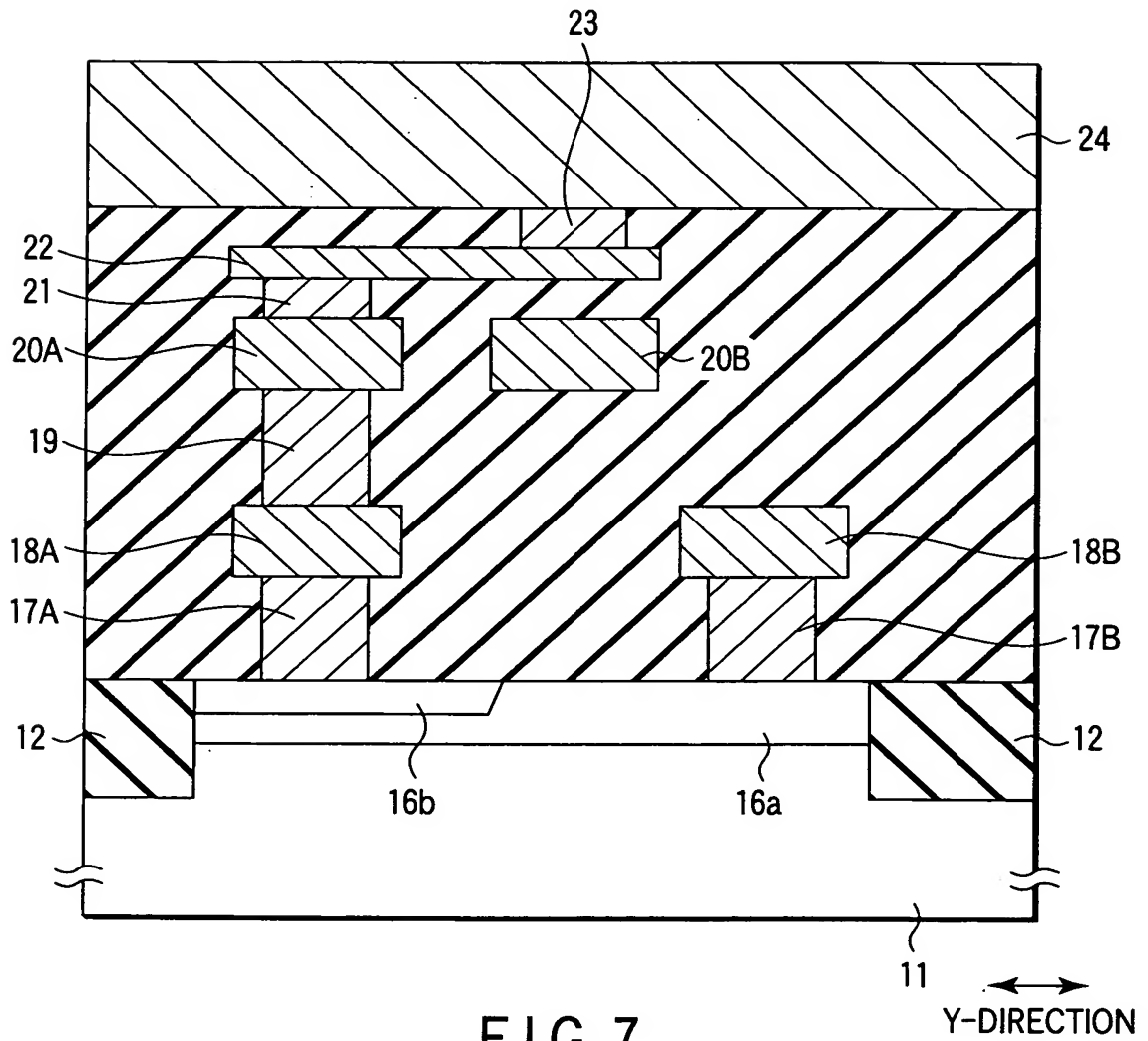


FIG. 7

FIG. 8

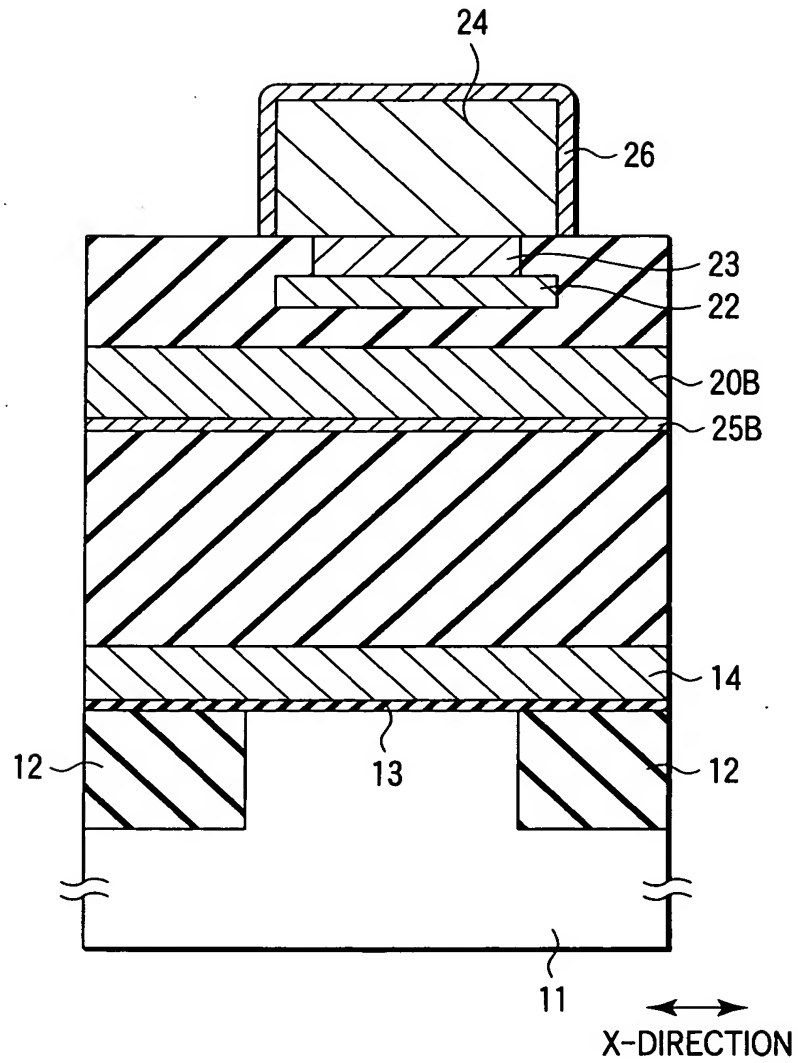


FIG. 9

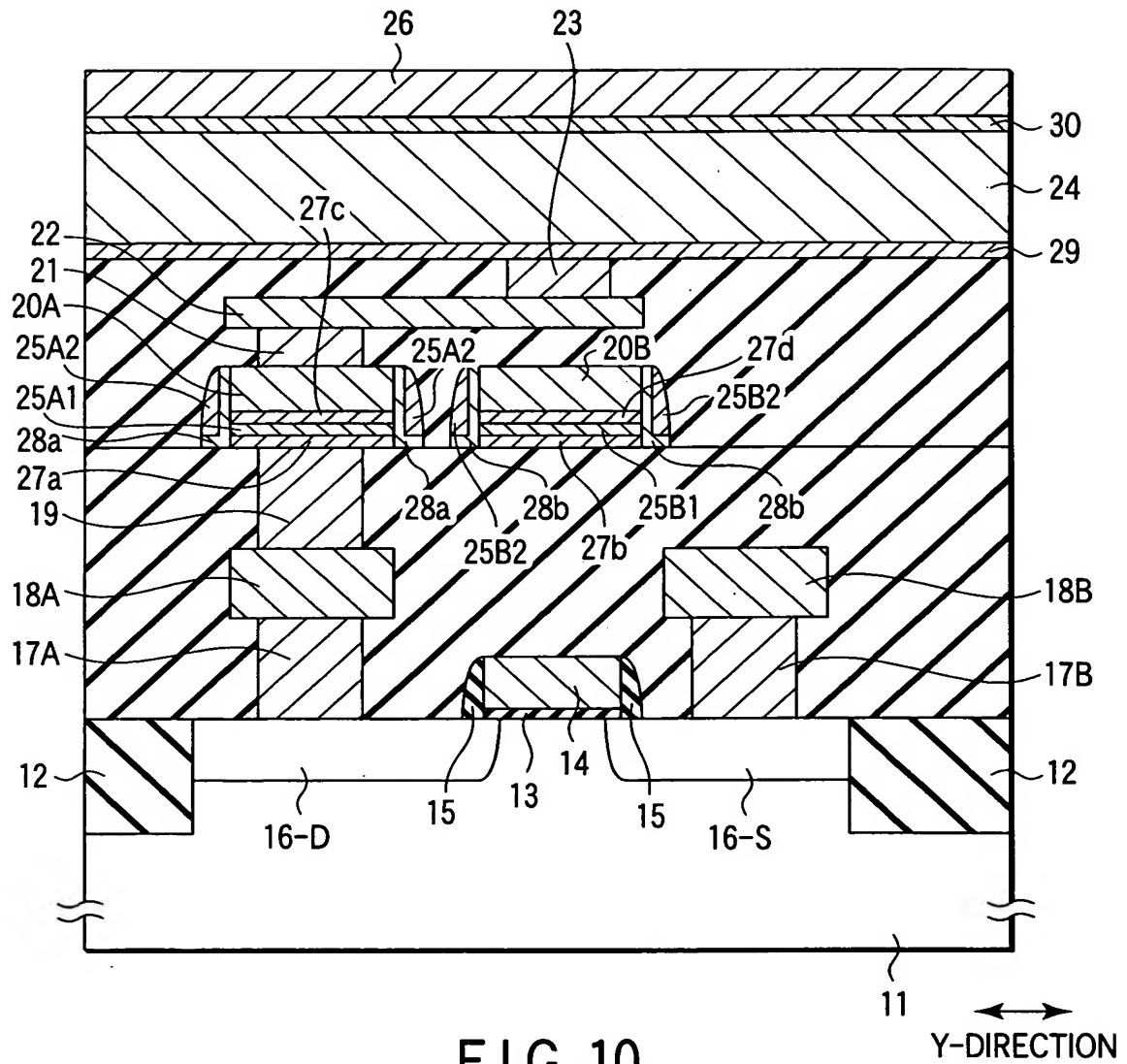


FIG. 10

FIG. 11

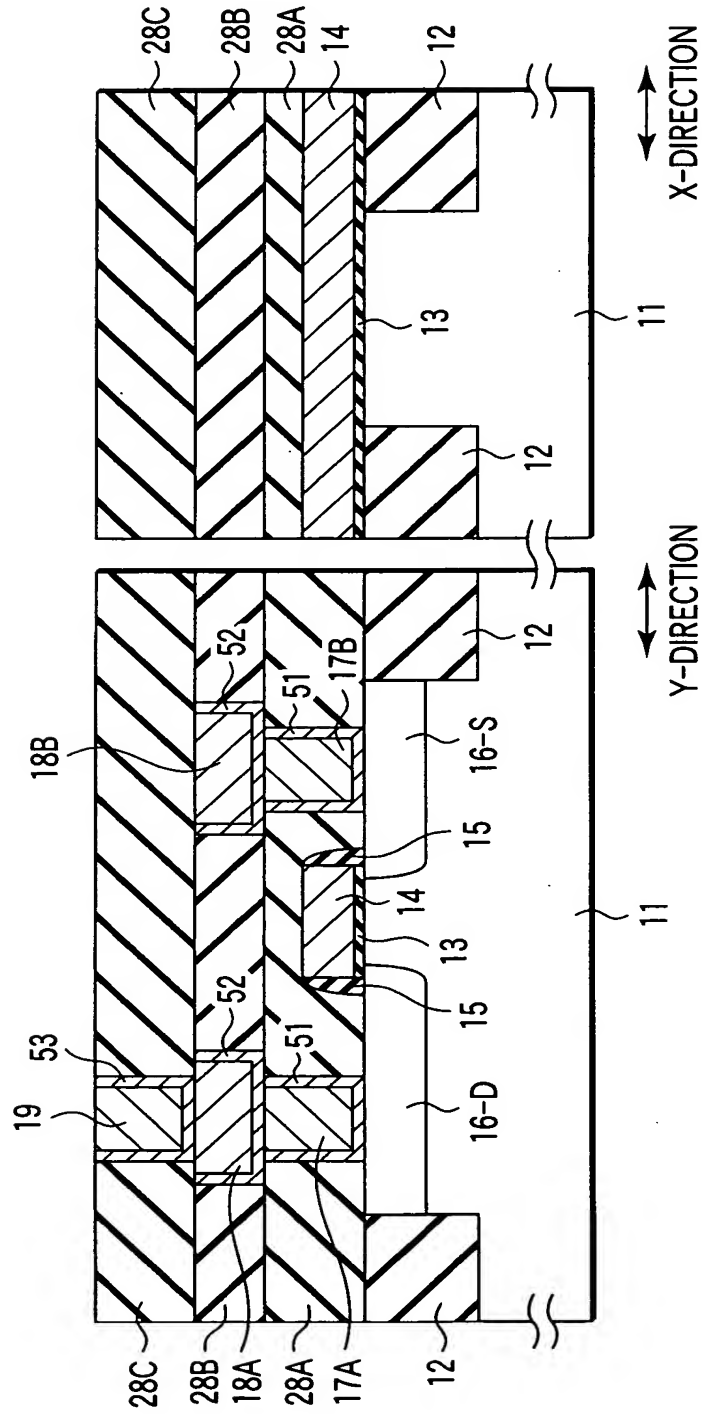


FIG. 12

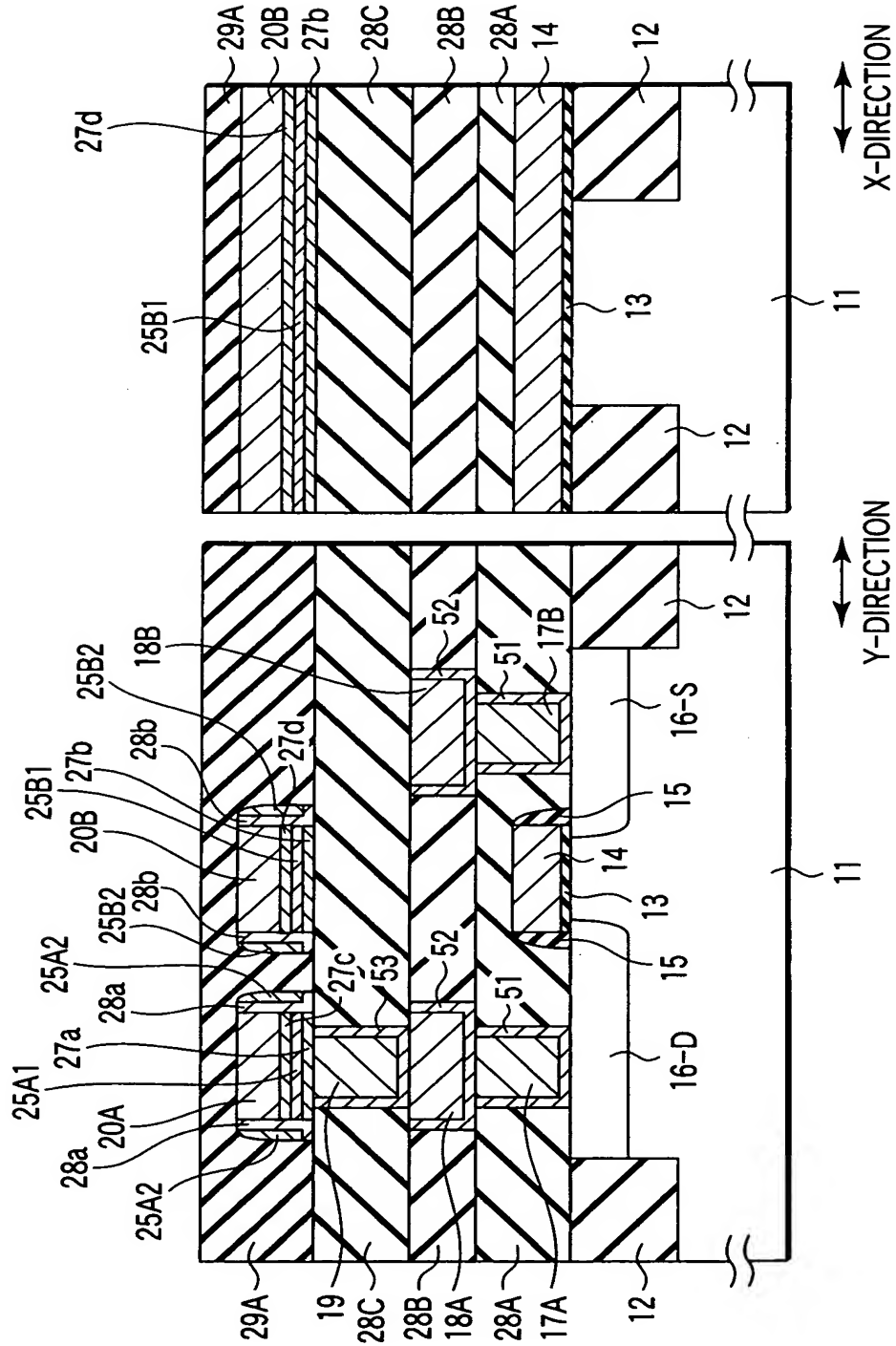


FIG. 13

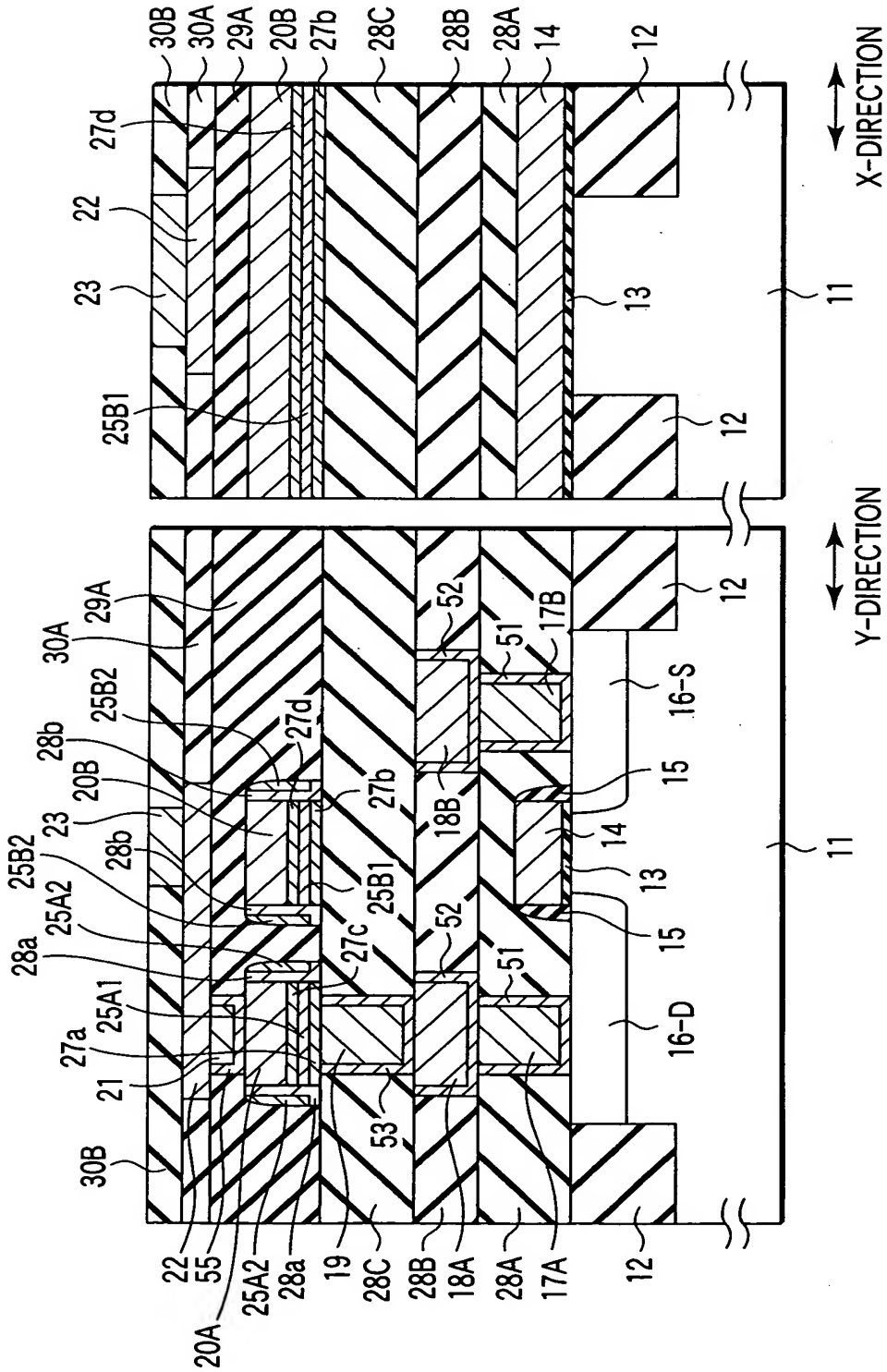


FIG. 14

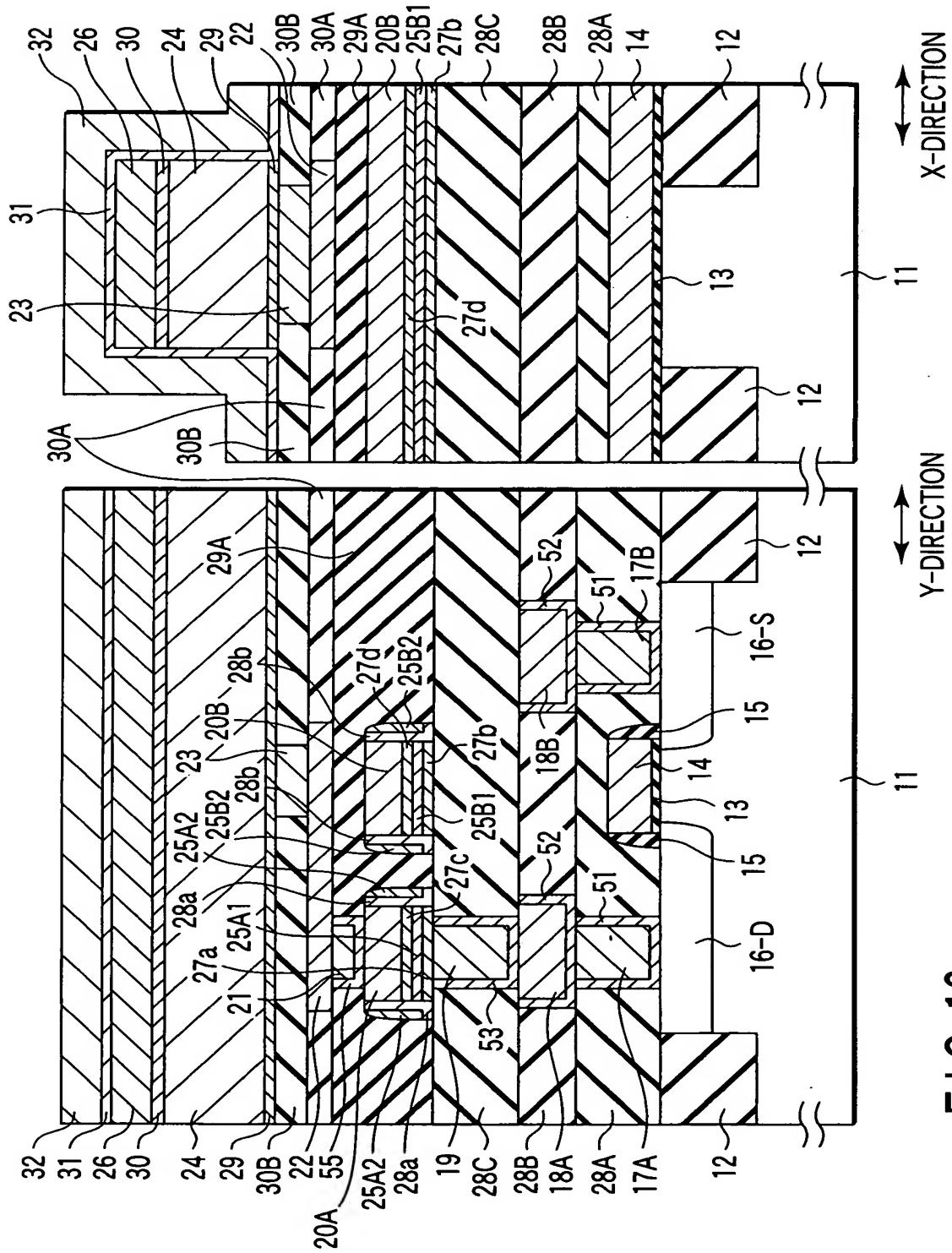


FIG. 16

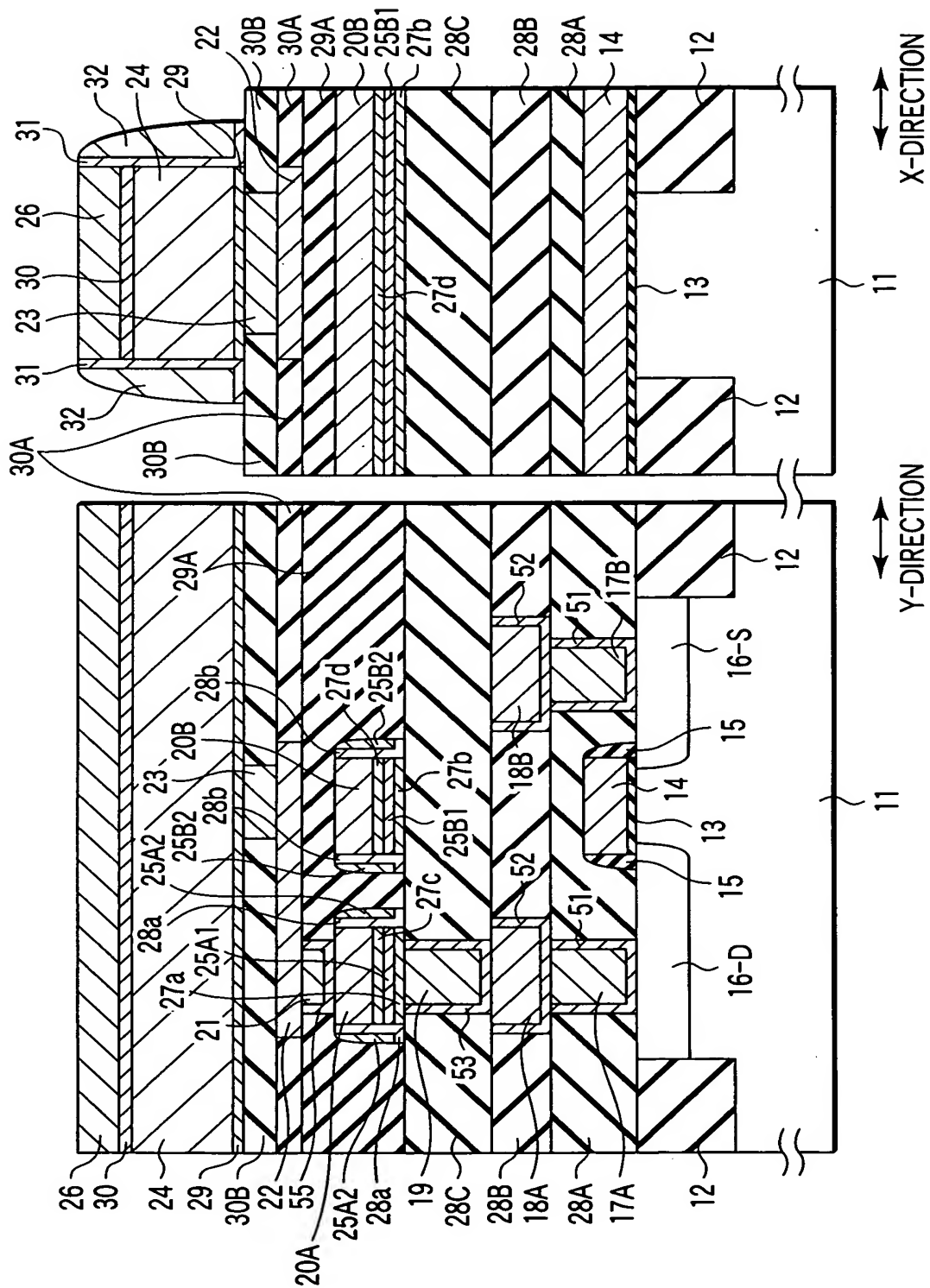


FIG. 17



Y-DIRECTION

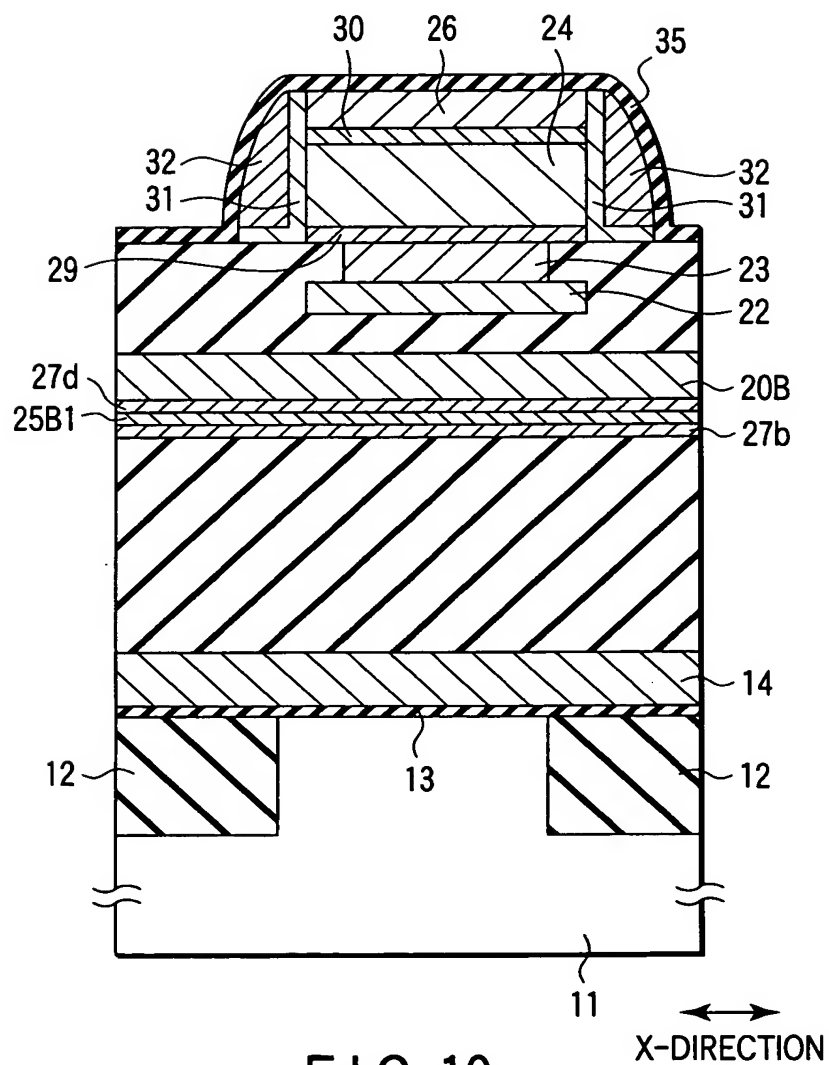


FIG. 19

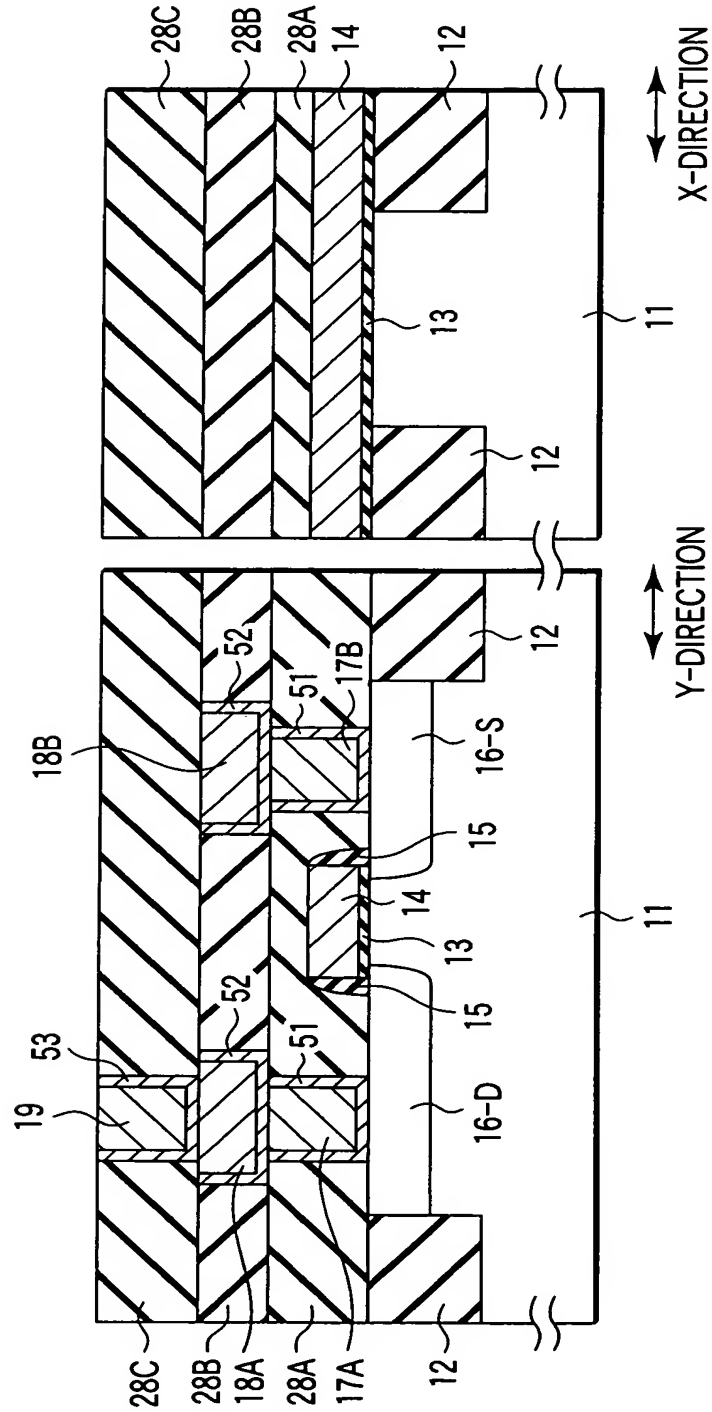


FIG. 20

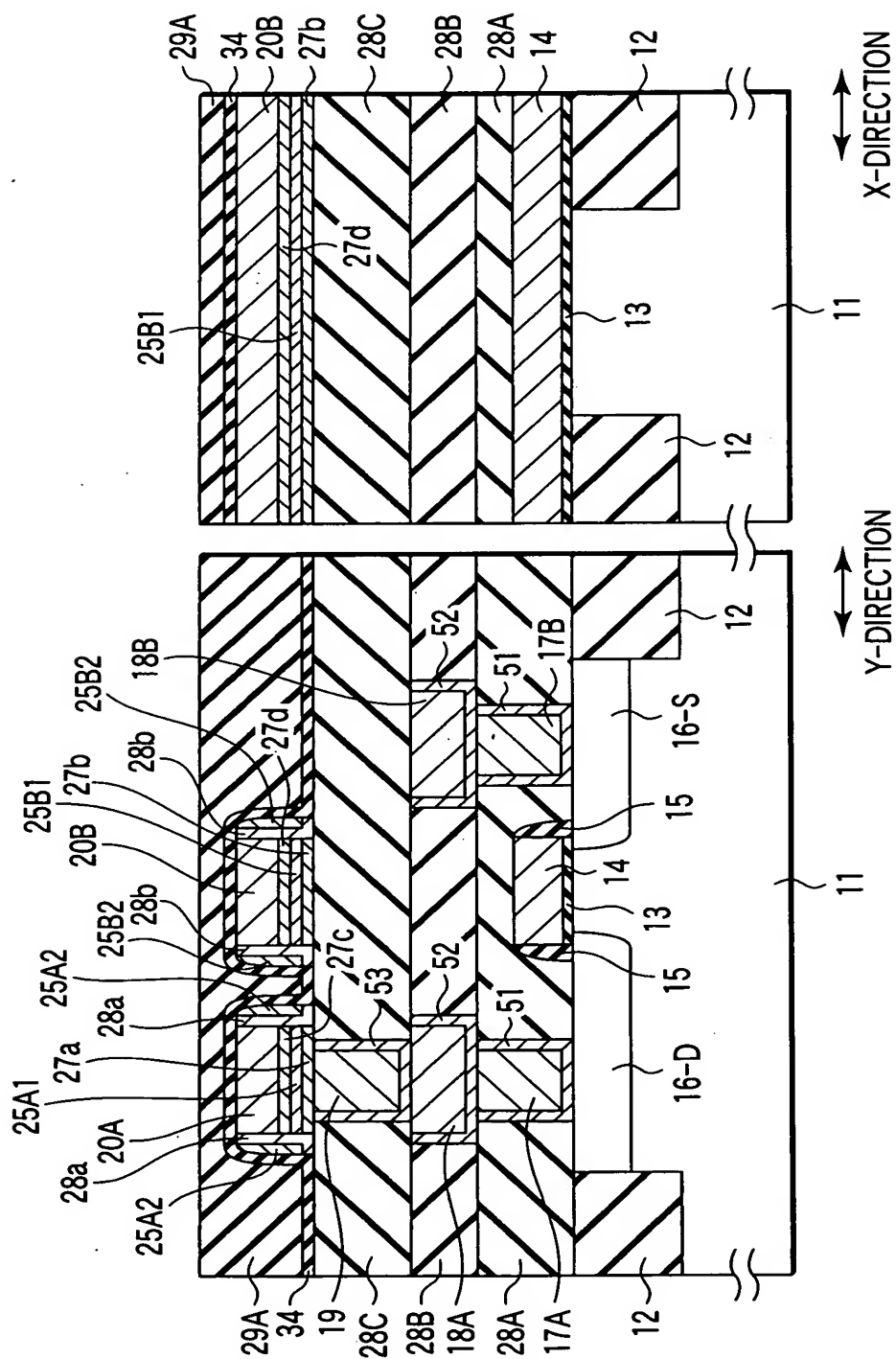


FIG. 21

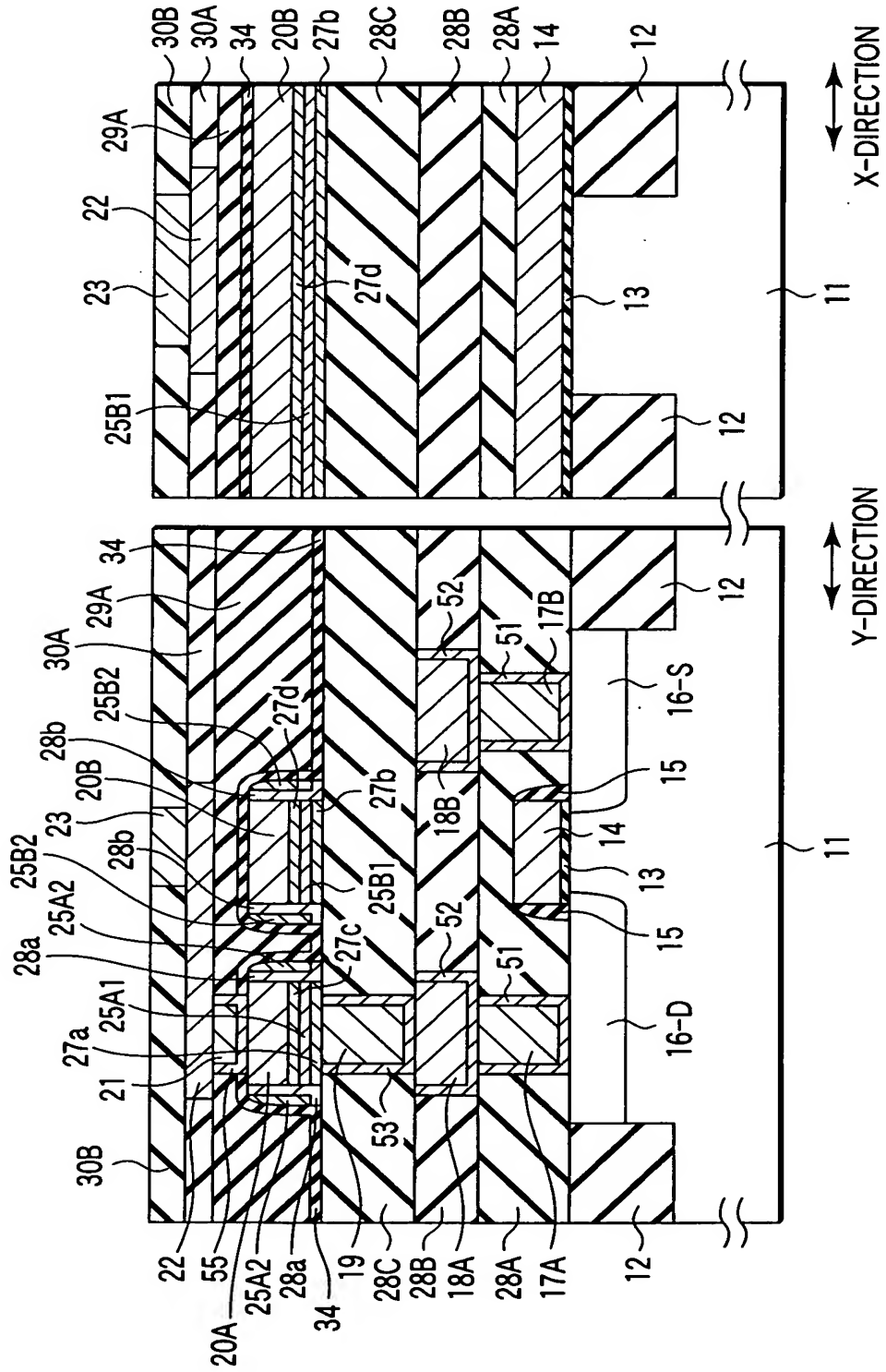


FIG. 22

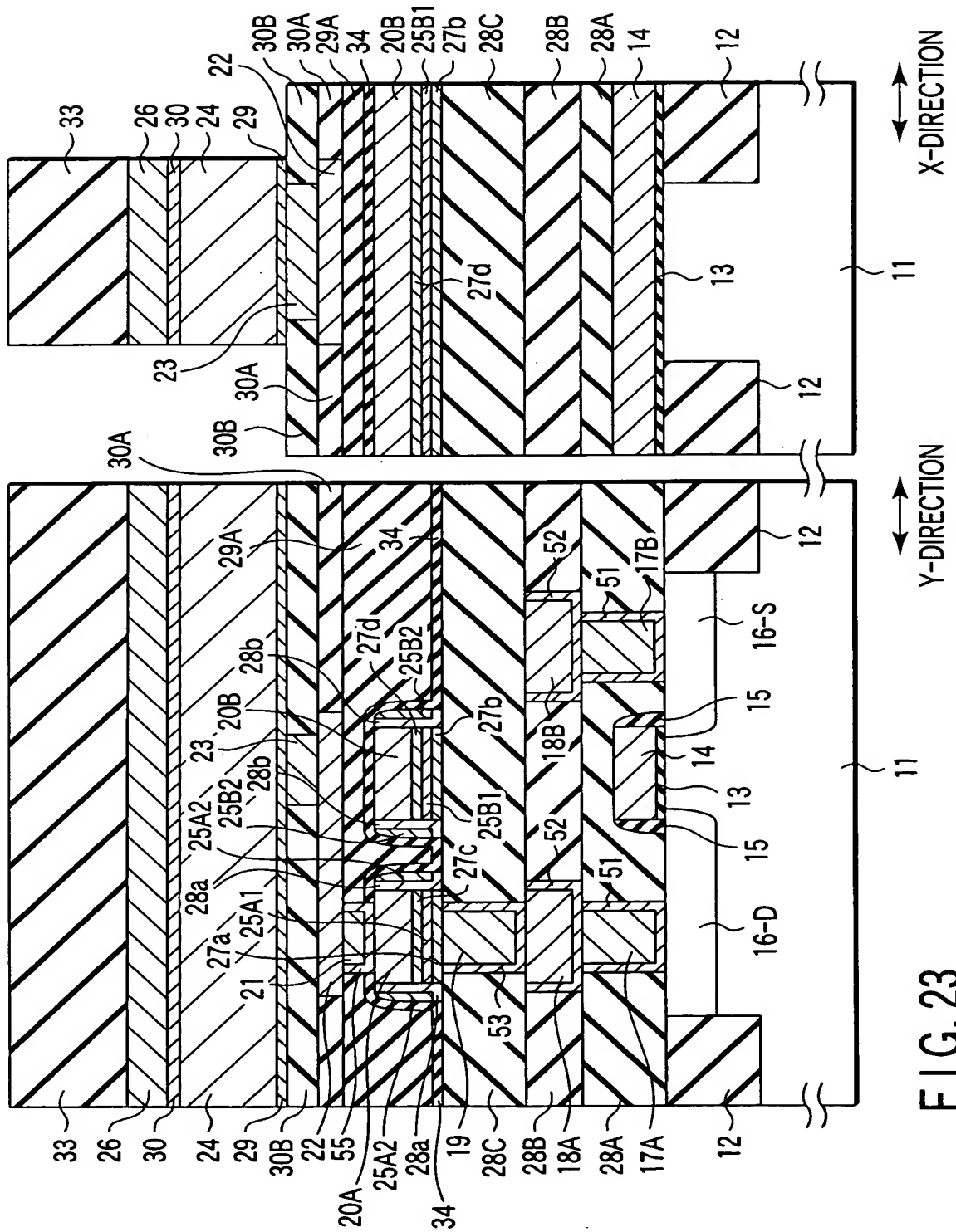


FIG. 23

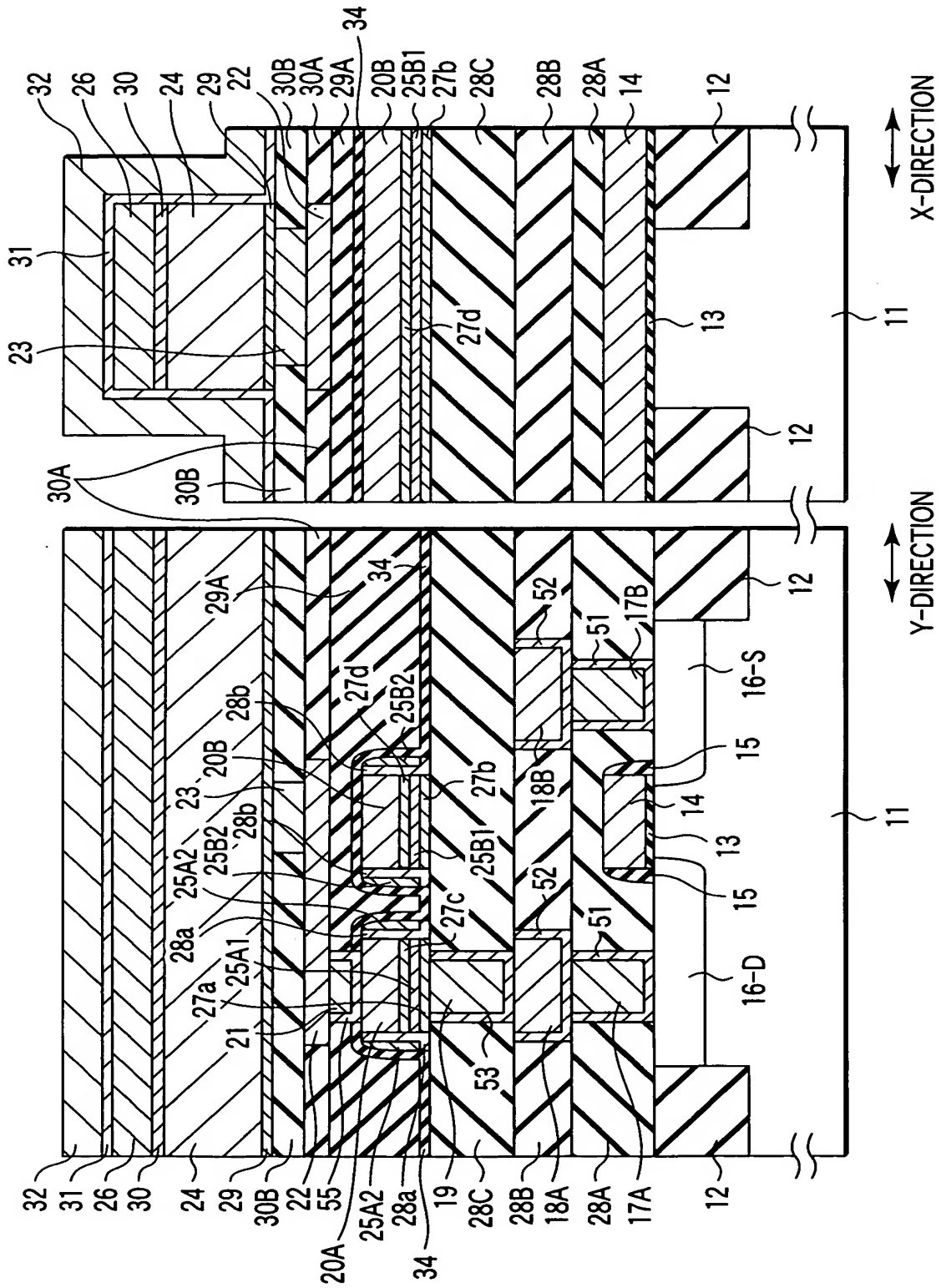


FIG. 24

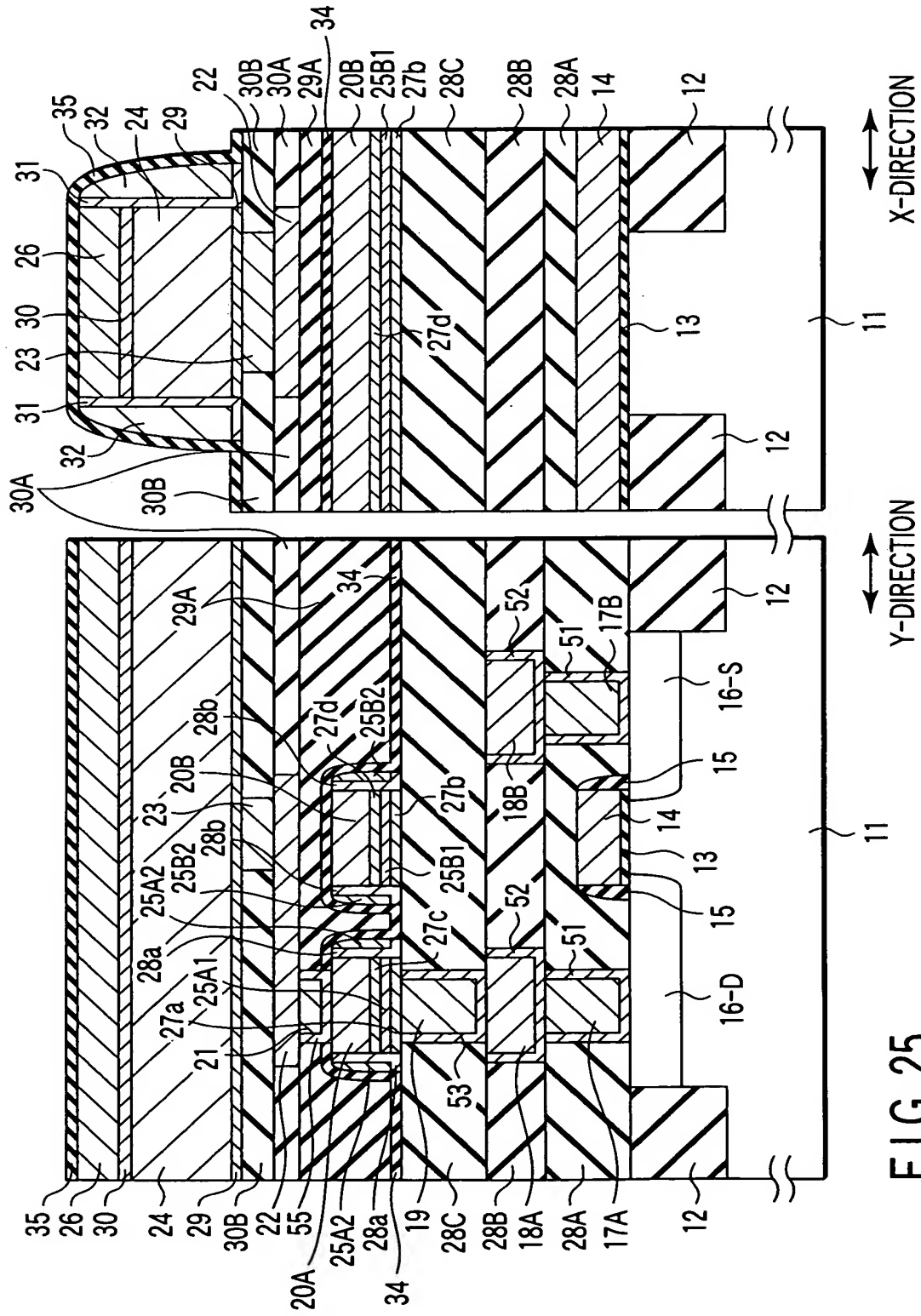


FIG. 25

FIG. 26

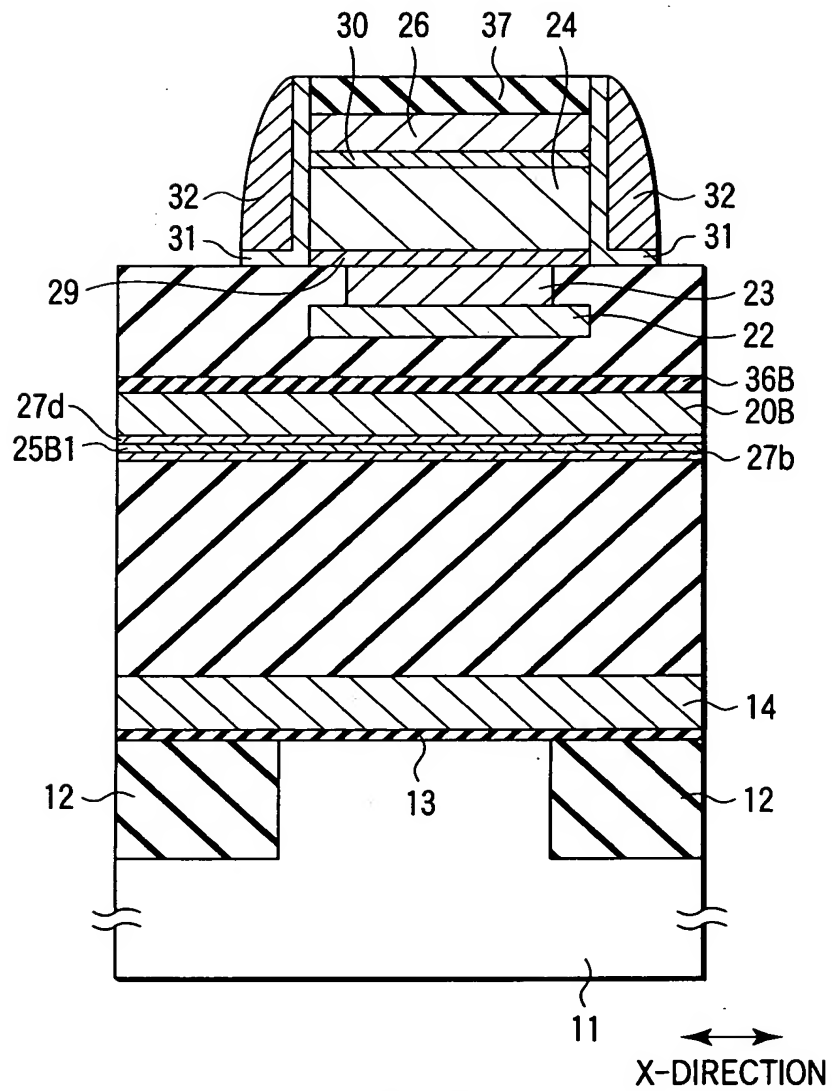


FIG. 27

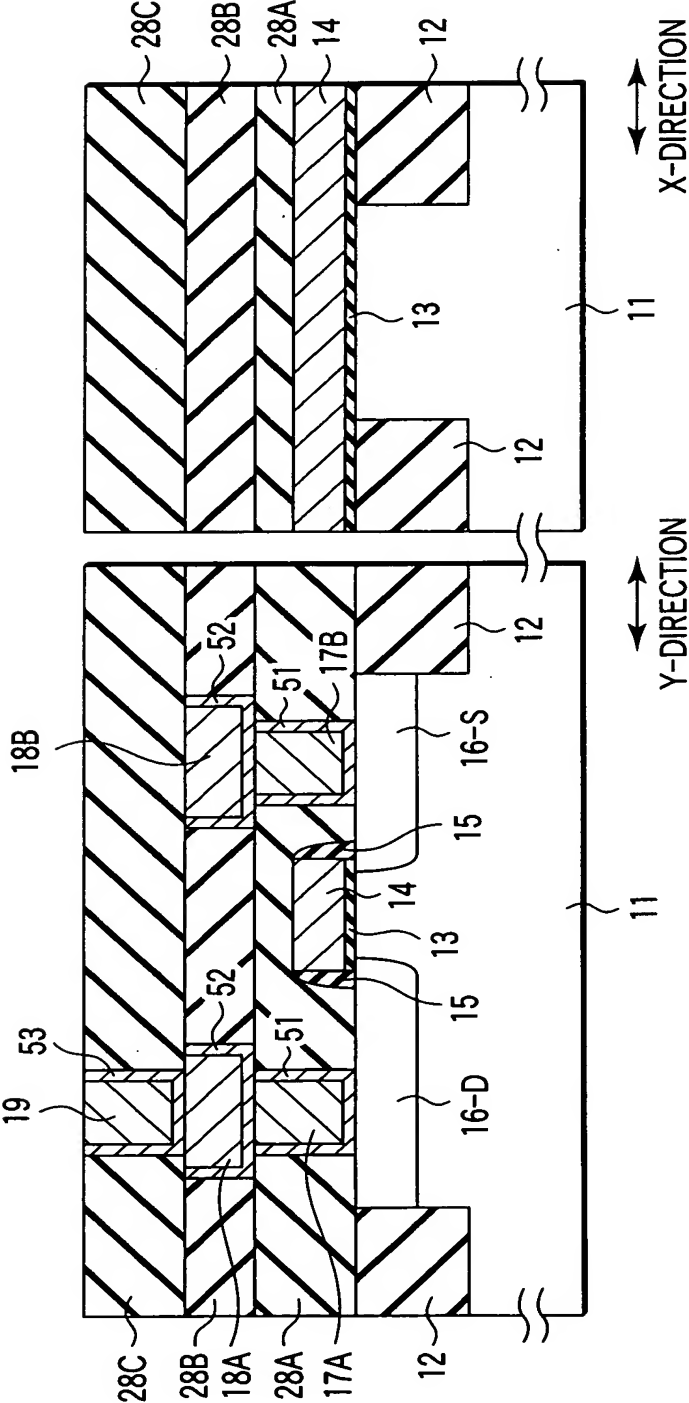


FIG. 28

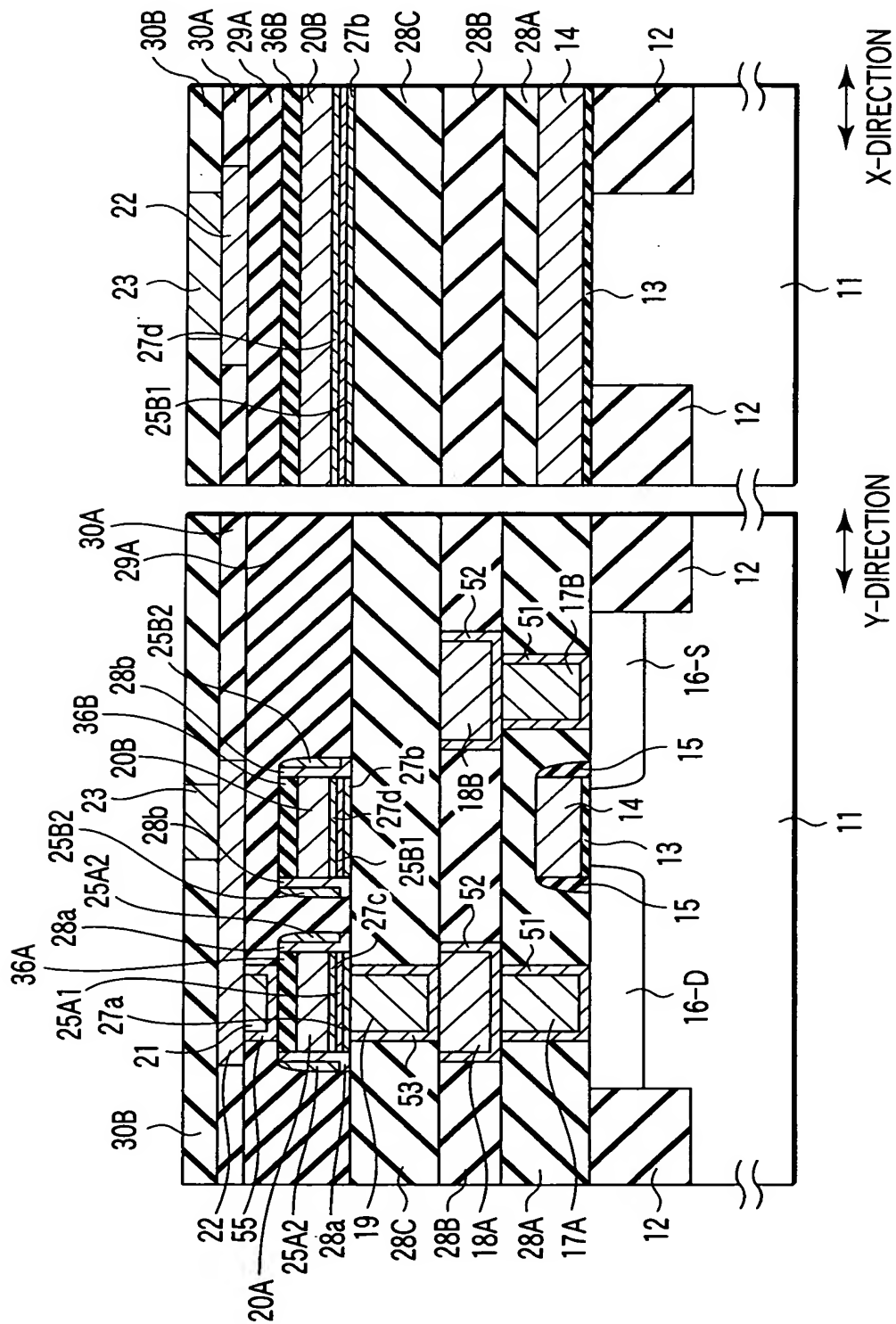
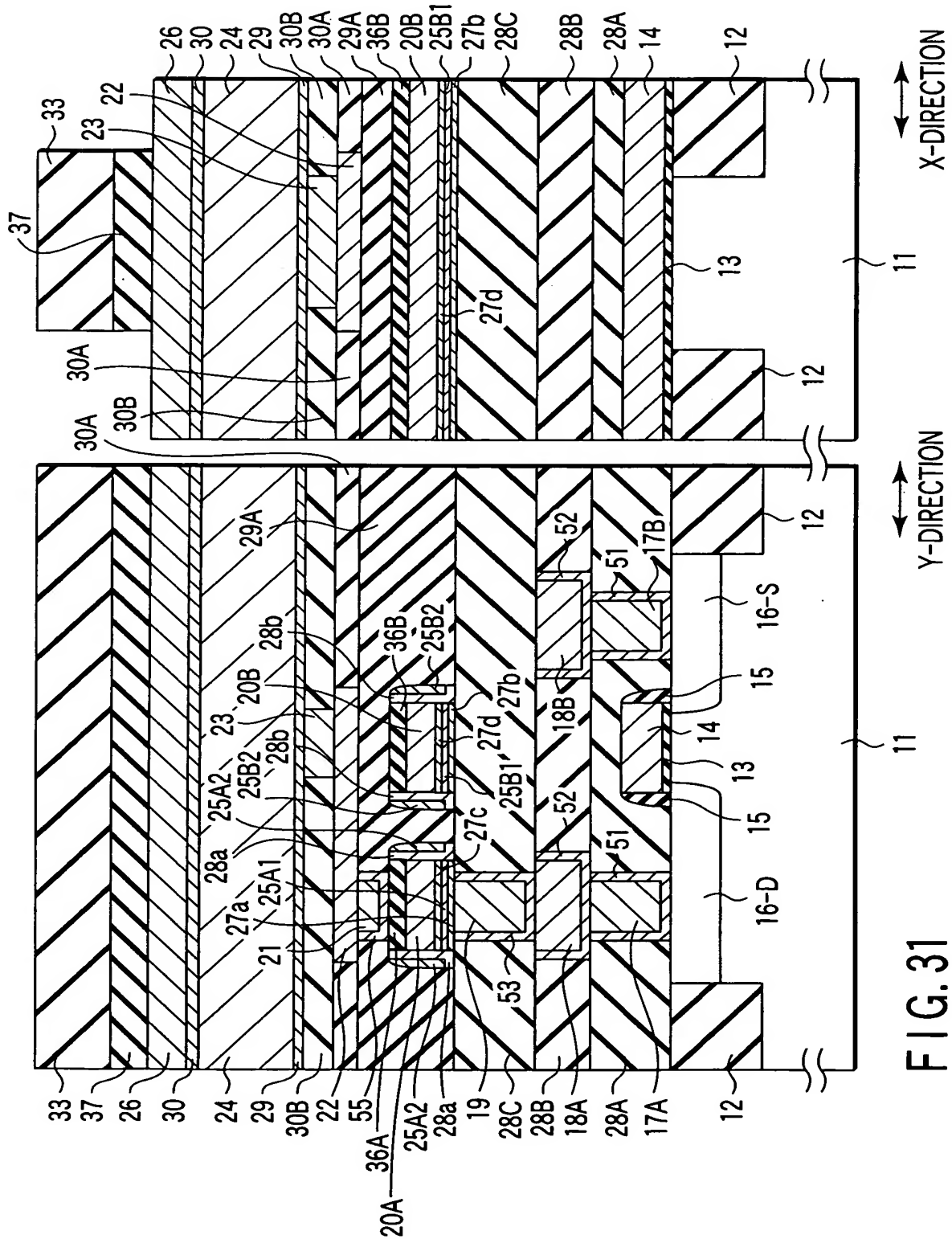


FIG. 30



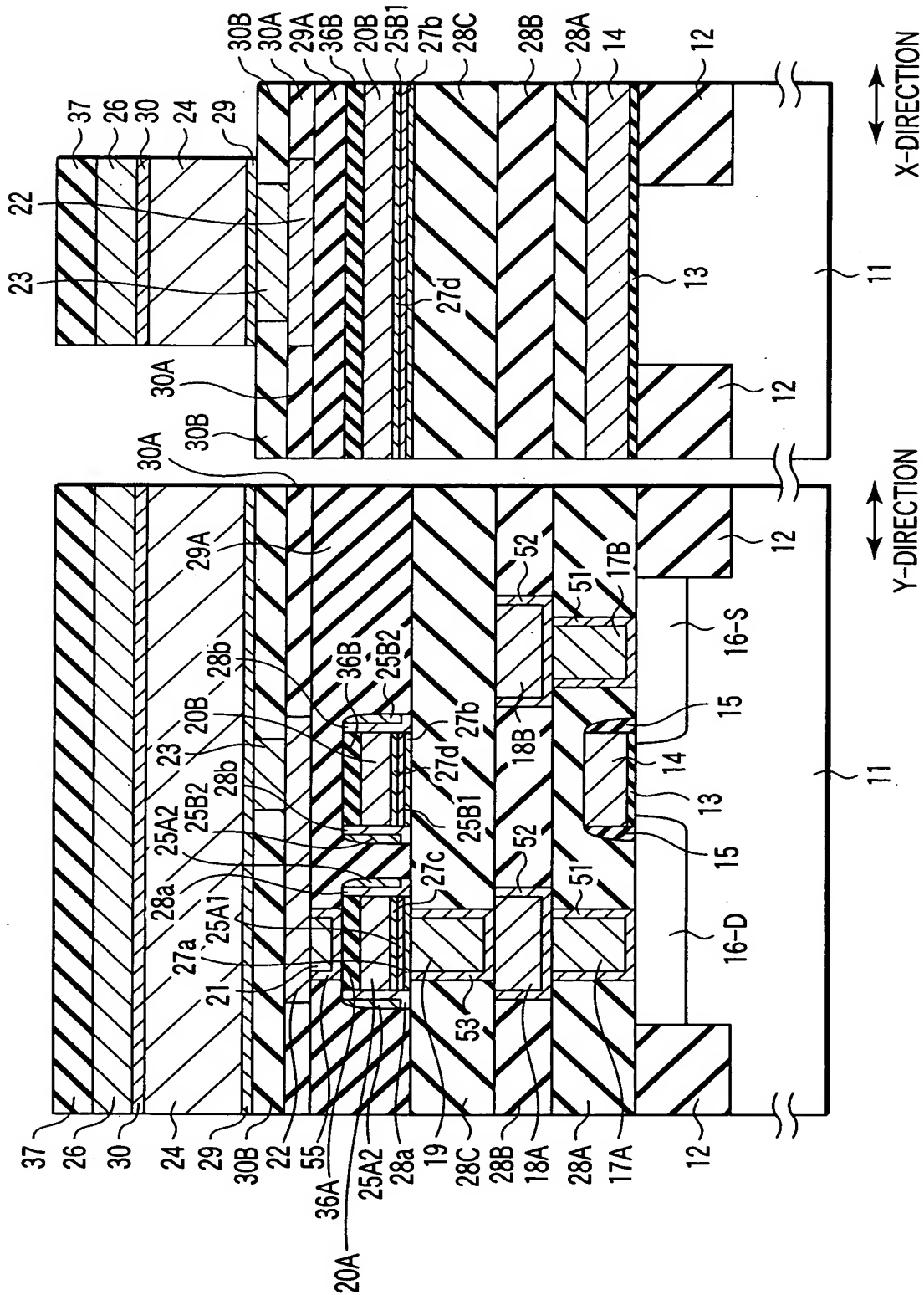


FIG. 32

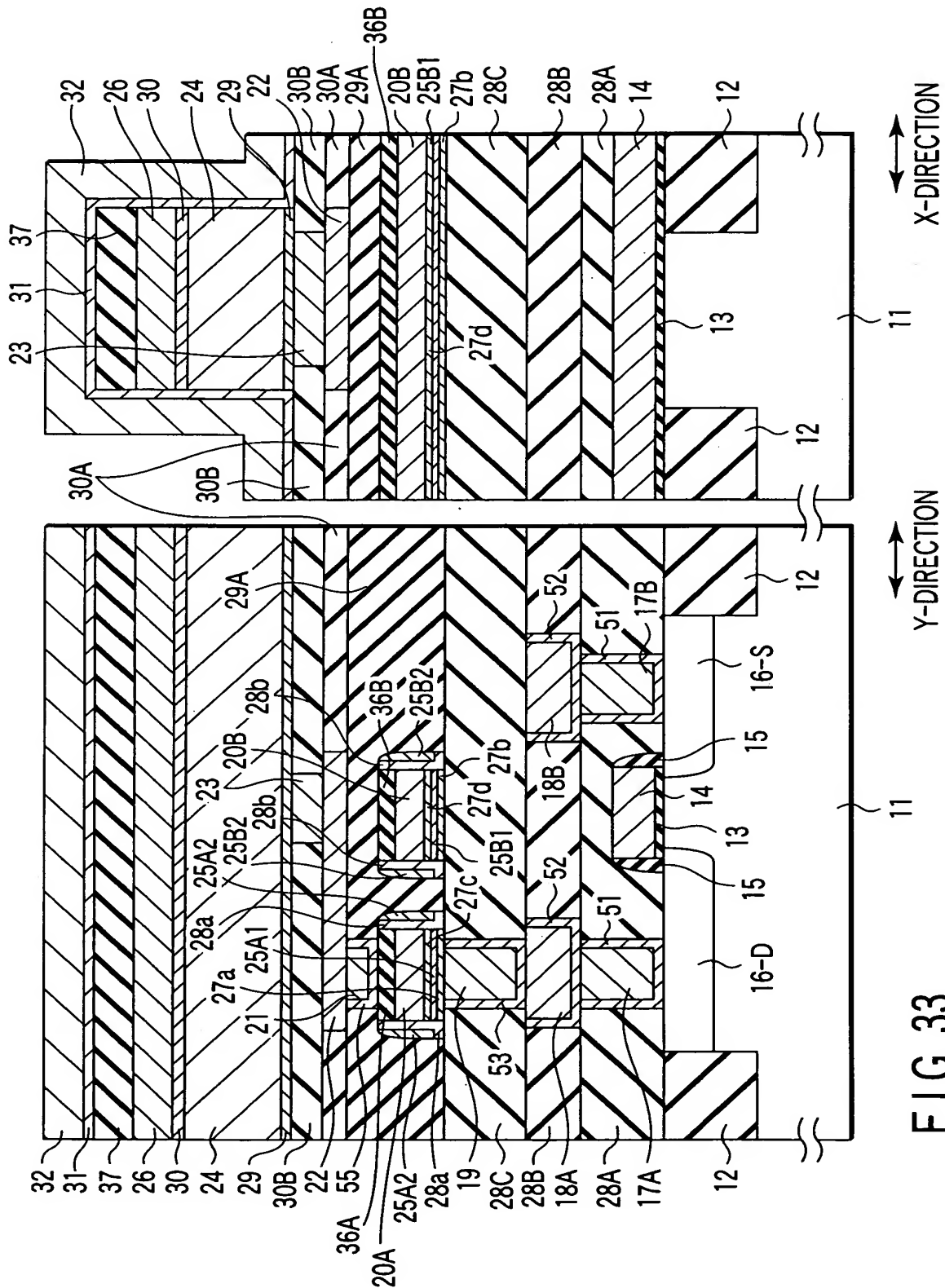


FIG. 33

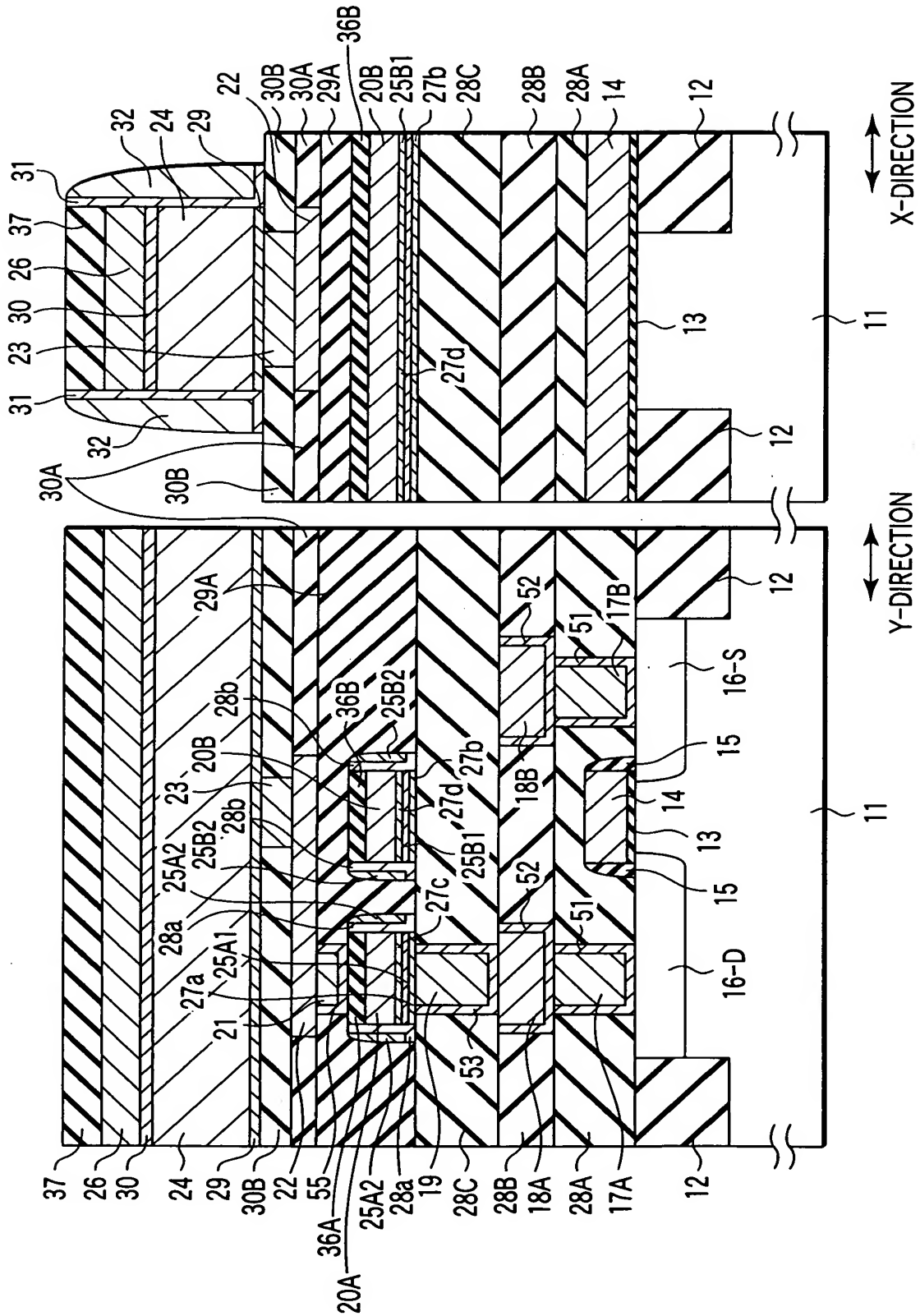
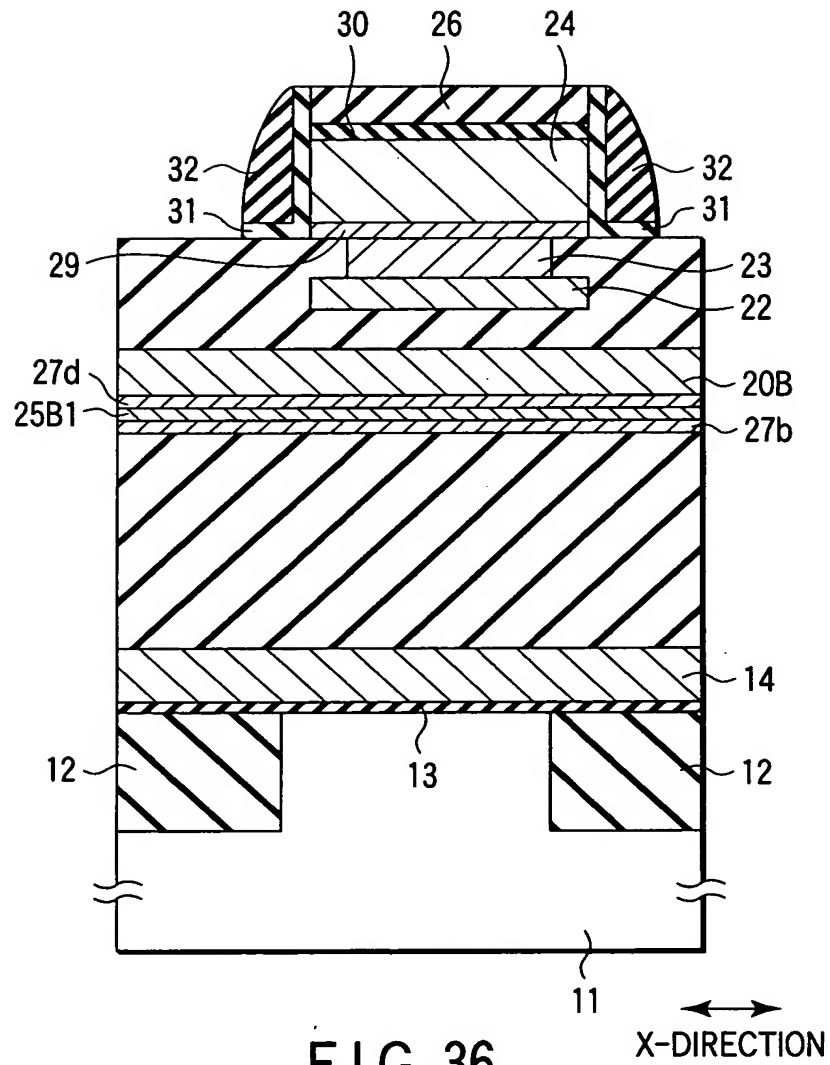


FIG. 34

FIG. 35



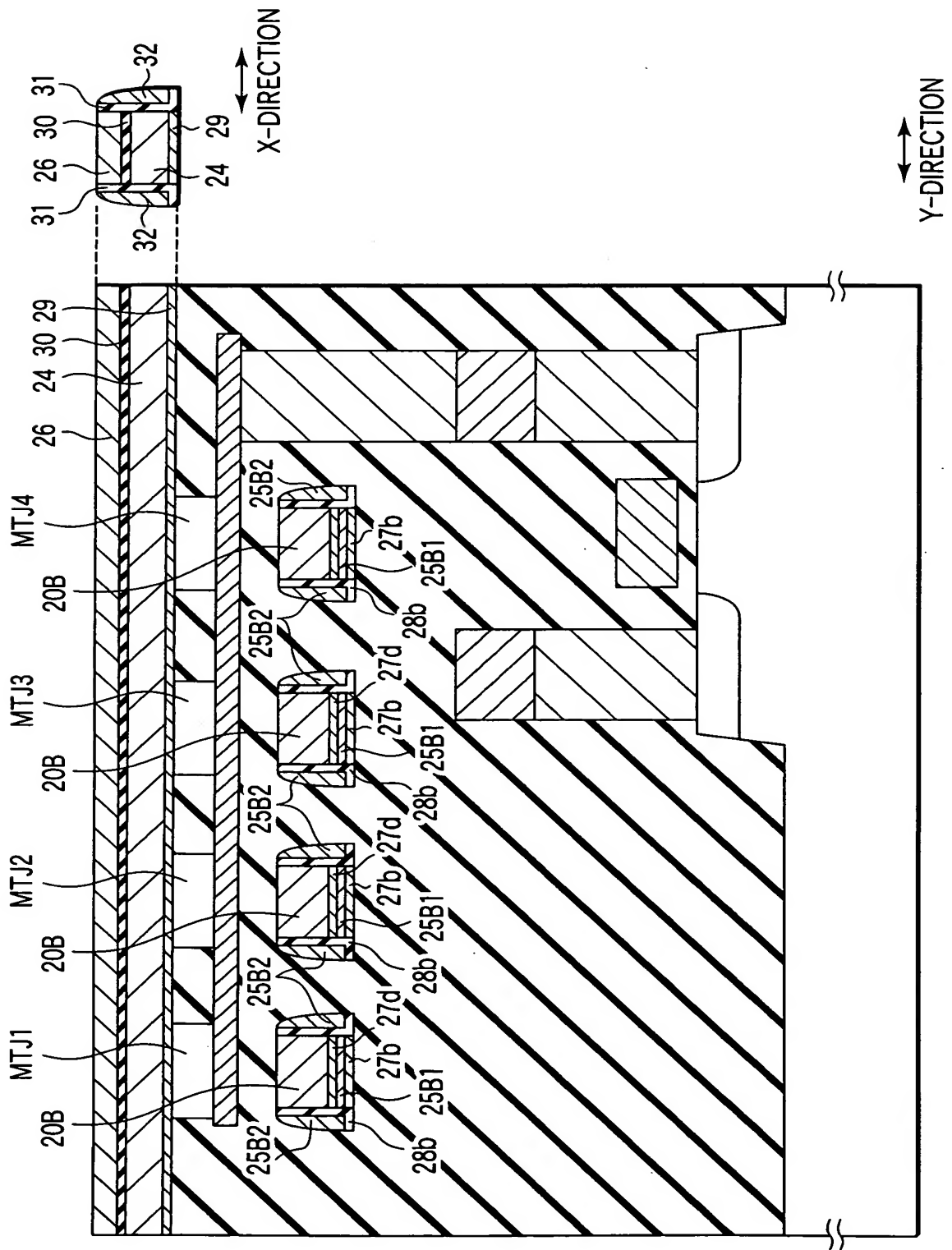


FIG. 37

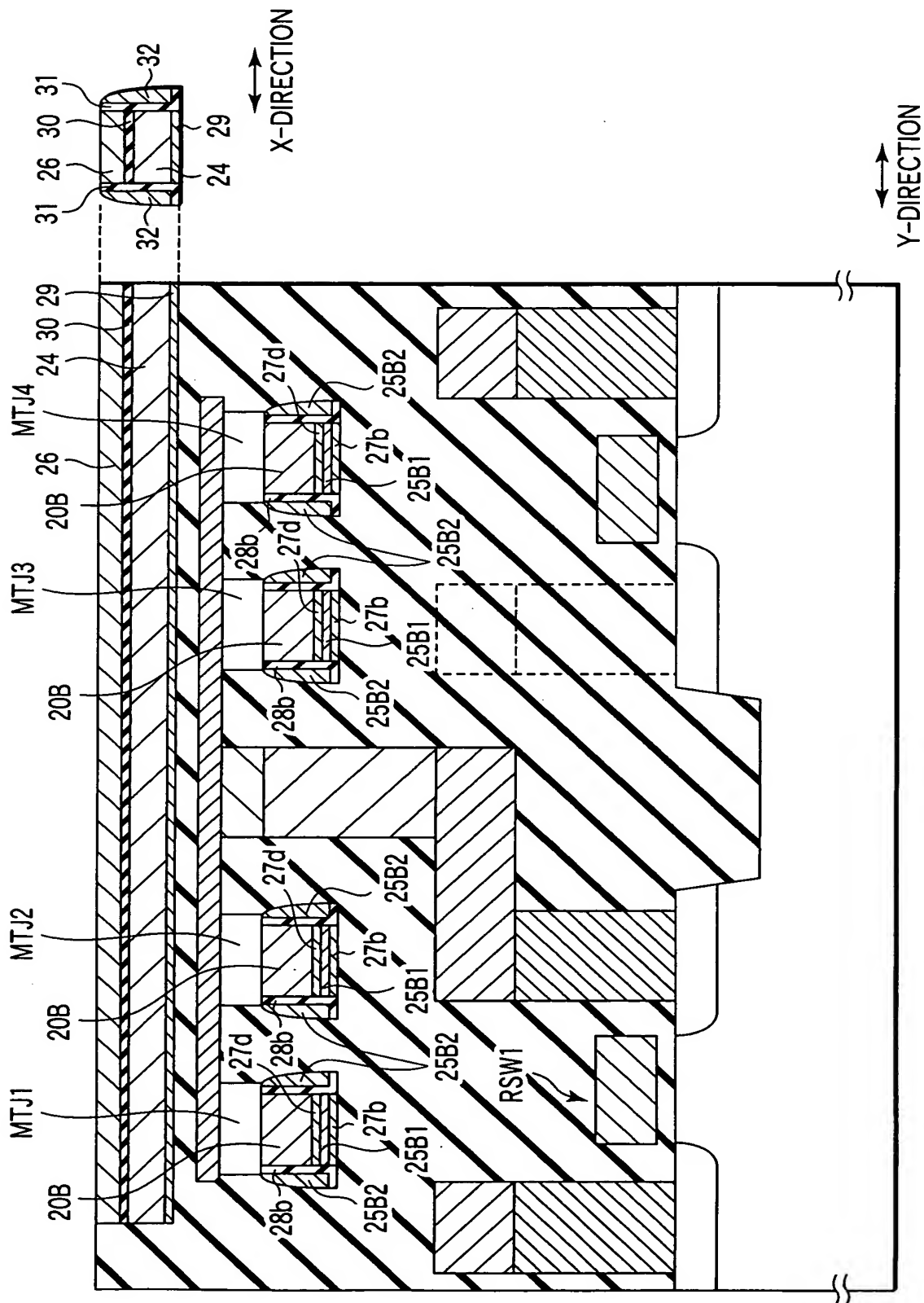


FIG. 38

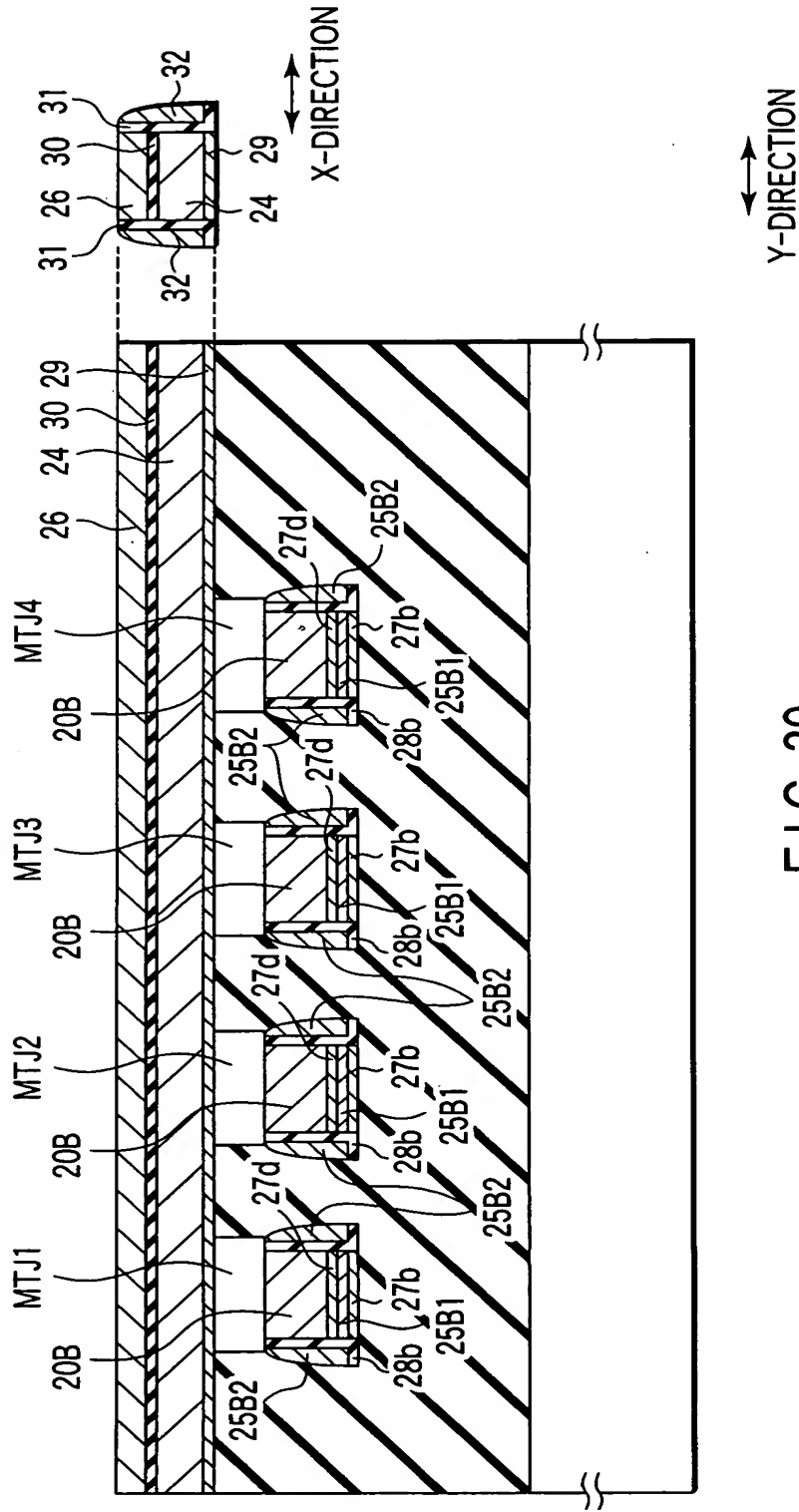


FIG. 39